Please amend claims 1, 14, 19, 23 and 25 as set forth below, and cancel claims 4, 13 and

22. This listing of claims will replace all prior versions and listings of claims in the application.

CLAIMS

1. (currently amended) An illumination device for simulating neon lighting,

comprising:

a substantially rod-like member having a predetermined length with a light-

receiving surface and a light-emitting surface, said rod-like member being composed of a

substantially flexible compound impregnated with a filler, said filler comprising a plurality of

micro balloons, each having a shell and deflecting light incident thereon; and

an elongated and substantially flexible light source extending along and

positioned adjacent the light-receiving surface of said rod-like member, such that light entering

the rod-like member from the elongated light source and through the light-receiving surface is

preferentially scattered by the filler, thus causing a collective light intensity pattern that appears

substantially uniform and devoid of hot spots along the light-emitting surface of said rod-like $\,$

member;

wherein said elongated light source is a multiplicity of spaced point light sources

arranged in a line extending substantially along the light-receiving surface of said rod-like

member, said point light sources spaced to map the light emitted by each point light source into said rod-like member so as to create elongated and overlapping light-intensity patterns that result

in the collective light intensity pattern that appears substantially uniform and devoid of hot spots

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along the light-emitting surface of said rod-like member.

2. (cancelled)

3. (original) The illumination device as recited in claim 1, wherein the flexible

compound is selected from the group consisting of polyurethane, silicone, and silicone rubber.

(cancelled)

(cancelled)

(cancelled)

7. (original) The illumination device as recited in claim 1, and further comprising a

housing for enclosing said light source, said housing being positioned below and extending along

said rod-like member such that the light source emits light into the light-receiving surface of the

rod-like member.

8. (original) The illumination device as recited in claim 7, wherein said housing

includes a pair of side walls defining an open-ended channel that extends substantially the

predetermined length of the rod-like member.

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9. (original) The illumination device as recited in claim 8, wherein said housing

further includes a floor portion, connecting said side walls so that the housing has a substantially

U-shape.

10. (original) The illumination device as recited in claim 7, wherein internal surfaces

of said housing are provided with a light-reflecting material in order to increase light collection

efficiency by reflecting light incident upon the internal surfaces of said housing into the light-

receiving surface of said rod-like member.

11. (original) The illumination device as recited in claim 8, and further comprising a

flexible circuit board received in the open-ended channel defined by the side walls of said

housing.

12. (original) The illumination device as recited in claim 11, wherein the position of

said light source and the flexible circuit board within the open-ended channel are maintained by

filling the open-ended channel with a flexible potting material.

(cancelled)

14. (currently amended) The illumination device as recited in claim 431, wherein

said point light sources are light emitting diodes.

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15. (original) The illumination device as recited in claim 1, wherein said rod-like

member defines an internal channel extending substantially along its predetermined length, the

elongated light source being housed within this channel so as to emit light into the light-

receiving surface of said rod-like member.

16. (original) The illumination device as recited in claim 15, and further comprising a

flexible circuit board received in the internal channel defined by said rod-like member.

17. (original) The illumination device as recited in claim 16, wherein the position of

said light source and the flexible circuit board within the internal channel are maintained by

filling the internal channel defined by said rod-like member with a flexible potting material .

18. (original) The illumination device as recited in claim 15, and further comprising a

collection surface adjacent a portion of the outer surface of the rod-like member and near said

light source for collecting and reflecting light not emitted directly into said rod-like member.

19. (currently amended) A method of making an illumination device capable of

simulating neon lighting, comprising the steps of:

impregnating a substantially flexible compound with a predetermined quantity of

micro balloons, each having a shell and deflecting light incident thereon;

forming an essentially solid rod with a predetermined length from said flexible

compound impregnated with said micro balloons;

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positioning and securing an elongated light source substantially adjacent a light-

receiving surface of said rod, such that light entering the rod from the elongated light source and

through the light-receiving surface is preferentially scattered by said micro balloons, thus

causing a collective light intensity pattern that appears substantially uniform and devoid of hot

spots along a light-emitting surface of said rod, wherein said elongated light source is a

multiplicity of spaced point light sources arranged in a line extending substantially along the

light-receiving surface of said rod, said point light sources spaced to map the light emitted by

each point light source into said rod so as to create elongated and overlapping light-intensity

patterns that result in the collective light intensity pattern that appears substantially uniform and

devoid of hot spots along the light-emitting surface of said rod-like member; and

bending said rod into a desired shape.

20. (original) The method as recited in claim 19, and further comprising the step of:

placing a housing having a pair of spaced walls defining a volume adjacent said

light-receiving surface, said elongated light source being received and retained in said housing.

21. (original) The method as recited in claim 20, and further comprising the step of:

essentially filling the volume defined by the spaced walls of the housing with a

potting material.

22. (cancelled)

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23. (currently amended) The method as recited in claim 24_19, wherein said point

light sources are light emitting diodes.

24. (original) The method as recited in claim 20, wherein said side walls have

interior surfaces that are light reflecting.

25. (currently amended) An illumination device for simulating neon lighting,

comprising:

an essentially solid and substantially rod-like member having a predetermined

length with a light-receiving surface and a light-emitting surface, said rod-like member being

composed of a substantially flexible compound and defining an internal channel extending

substantially along its predetermined length;

a flexible circuit board received in the internal channel defined by said rod-like

member;

a multiplicity of spaced point light sources arranged in a line along said flexible

circuit board and extending substantially along the light-receiving surface of said rod-like

member, such that light entering the rod-like member from said point light sources and through

the light-receiving surface is preferentially scattered, with light being directed along the

predetermined length of said rod-like member while also being urged out the light-emitting

surface of said rod-like member, thus causing a light intensity pattern that appears substantially

uniform along the light-emitting surface of said rod-like member; and

a collection surface positioned near said point light sources for collecting and

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reflecting light not emitted directly into said rod-like member.

26. (previously presented) The illumination device as recited in claim 25, wherein

said collection surface is adjacent a portion of the outer surface of said rod-like member.

27. (previously presented) The illumination device as recited in claim 25, wherein

said point light sources are light emitting diodes.

28. (previously presented) The illumination device as recited in claim 25, in which

said substantially flexible compound is impregnated with a filler, said filler deflecting light

incident thereon so as to achieve the desired preferential scattering of light and causing the light

intensity pattern to appear substantially uniform along the light-emitting surface of said rod-like

member.

29. (previously presented) The illumination device as recited in claim 28, wherein

said filler is a plurality of micro balloons, each having a shell and deflecting light incident

thereon.

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